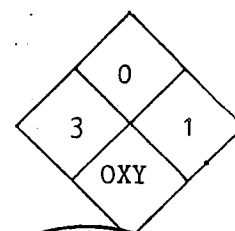


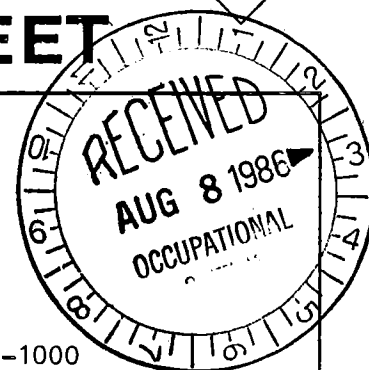
AMCHEM PRODUCTS, INC.  
Division of Henkel Corporation  
300 Brookside Avenue  
Ambler, PA 19002



Dpm 1453



# MATERIAL SAFETY DATA SHEET



PRODUCT TRADE NAME Alodine 1200  
D.O.T. PROPER SHIPPING NAME Chromic Acid Mixture  
D.O.T. HAZARD CLASSIFICATION Oxidizer  
TECHNICAL CONTACT (NAME) Charles Gruszka  
TELEPHONE NUMBER (215) 628-1364 EMERGENCY NUMBER (215) 628-1000

## 1 HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	CONTENT(% WT/WT)	HAZARD	TLV
Chromic Acid	1333-82-0	20-30	Oxidizer Carcinogen, NTP	0.05mg/M <sup>3</sup>
Potassium Ferricyanide	13746-66-2	15-20	Irritant	N/A
Potassium Fluozirconate	16923-95-8	10-15	Irritant	N/A
Sodium Fluoborate	13755-29-8	30-40	Irritant	N/A

## 2 PHYSICAL DATA

APPEARANCE dark orange powder  
ODOR bland  
SPECIFIC GRAVITY N/A  
@ 60°F  
OTHER: N/A  
SOLUBILITY IN WATER appreciable  
pH OF CONCENTRATE N/A  
@ 60°F  
BOILING POINT °F N/A

## 3 FIRE AND EXPLOSION DATA

FLASH POINT none TEST METHOD EXTINGUISHING MEDIA water

UNUSUAL FIRE OR EXPLOSION HAZARDS Do not allow this material to come in contact with organic materials such as rags, sawdust, paper, etc. If this material is heated to decomposition, toxic cyanide fumes may be emitted.

SPECIAL FIRE FIGHTING PROCEDURES none

## 4 REACTIVITY DATA

Alodine 1200

STABLE ☒

UNSTABLE ☐

(CONDITIONS TO AVOID)

INCOMPATIBLE MATERIALS

organic materials, reducing agents, strong acids

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR ☒

MAY OCCUR ☐

CONDITIONS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS

Some hydrogen fluoride; hydrogen cyanide. Addition of acids to this material will generate highly toxic hydrogen cyanide fumes.

## 5 HEALTH HAZARD DATA

Skin: Will burn.

Eyes: Will burn.

Ingestion: Will burn mucous membranes.

Inhalation: Chronic acid dust can cause irritation and ulcers of the nasal septum.

## 6 FIRST AID RECOMMENDATIONS

Skin: Wash with soap and water and rinse thoroughly.

Eyes: Flush immediately with copious amounts of water for at least 15 minutes. Call a doctor.

Ingestion: Drink milk of magnesia, aluminum hydroxide gel, or limewater followed by several glasses of water. Call a doctor. Do not induce vomiting unless directed by a doctor.

Inhalation: Remove from contaminated area to fresh air. Any exposed person with any respiratory difficulty such as coughing, chest pain, breathing difficulty, dizziness, fatigue, etc., should be examined by a doctor and the doctor made aware of what materials the individual was exposed to.

## 4 REACTIVITY DATA

Alodine 1200

STABLE ☒

UNSTABLE ☐

(CONDITIONS TO AVOID)

INCOMPATIBLE MATERIALS

organic materials, reducing agents, strong acids

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HAZARDOUS DECOMPOSITION PRODUCTS

Some hydrogen fluoride; hydrogen cyanide. Addition of acids to this material will generate highly toxic hydrogen cyanide fumes.

## 5 HEALTH HAZARD DATA

Skin: Will burn.

Eyes: Will burn.

Ingestion: Will burn mucous membranes.

Inhalation: Chromic acid dust can cause irritation and ulcers of the nasal septum.

## 6 FIRST AID RECOMMENDATIONS

Skin: Wash with soap and water and rinse thoroughly.

Eyes: Flush immediately with copious amounts of water for at least 15 minutes. Call a doctor.

Ingestion: Drink milk of magnesia, aluminum hydroxide gel, or limewater followed by several glasses of water. Call a doctor. Do not induce vomiting unless directed by a doctor.

Inhalation: Remove from contaminated area to fresh air. Any exposed person with any respiratory difficulty such as coughing, chest pain, breathing difficulty, dizziness, fatigue, etc., should be examined by a doctor and the doctor made aware of what materials the individual was exposed to.

## 7 SPILL PROCEDURES & WASTE DISPOSAL

Alodine 1200

### SPILL PROCEDURES

Transfer any excess to a clean polyethylene container. Treat remaining residue with a dilute solution of sodium metabisulfite to reduce chrome. Neutralize with lime to pH 7-8.

### WASTE TREATMENT

Flush reduced and neutralized material to treatment plant with plenty of water and with approval of regulatory agency.

## 8 PERSONAL PROTECTION

### VENTILATION REQUIREMENTS

GENERAL AREA EXHAUST ☐

LOCAL EXHAUST ☒

NO EXHAUST NECESSARY ☐

### PERSONAL PROTECTIVE EQUIPMENT

EYE PROTECTION safety goggles

SKIN PROTECTION rubber gloves and aprons

RESPIRATORY PROTECTION filter type dust respirator-NIOSH approved

OTHER REQUIRED EQUIPMENT N/A

## 9 SPECIAL PRECAUTIONS AND STORAGE

Keep separate from organic materials and resuding agents. Do not breathe dust or get in eyes or on skin. Do not open container in an unventilated space.

PREPARED BY

Charles Gruszka

DATE

6/18/86  
(rev.)

TITLE

Senior Chemist